

# Technical Data Sheet

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## Catalyst M

Methyl ethyl ketone peroxide  
CAS#1338-23-4  
Liquid mixture

### Description

Catalyst M is a methyl ethyl ketone peroxide in phlegmatizer for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.

### Technical Data

Appearance	Colourless and clear liquid
Active oxygen	9.0 - 9.2 %
Free hydrogen peroxide content	1.6 - 1.8 %
Water content	1.5 %
Flash point	> 80 °C (Method: Seta closed cup)
Density at 20 °C	1.12 - 1.15 g/cm <sup>3</sup>
Viscosity at 20 °C	9 - 15 mPa.s
Soluble in:	Oxygenated organic solvents
Slightly soluble in:	Water
Critical temperature (SADT)	65 °C
Recommended storage temperature	Max 30 °C.
Maintenance of activity at 30 °C as from date of delivery	6 months

### Application

Catalyst M is a general purpose MEKP and is the workhorse of the United Initiators line. Catalyst M gives consistent room temperature performance with both resins and gelcoats. A reliable product of remarkable purity, Catalyst M assures quality in almost every system. Suitable applications are: Hand lay-up, spray-up, RTM, continuous laminating, centrifugal casting, filament winding, polyester concrete and vacuum infusion. A single MEKP initiator formulation cannot provide optimum results in all resin systems. Evaluation of each MEKP in each resin intended for use is absolutely essential before full-scale manufacturing is attempted.

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## Measurements

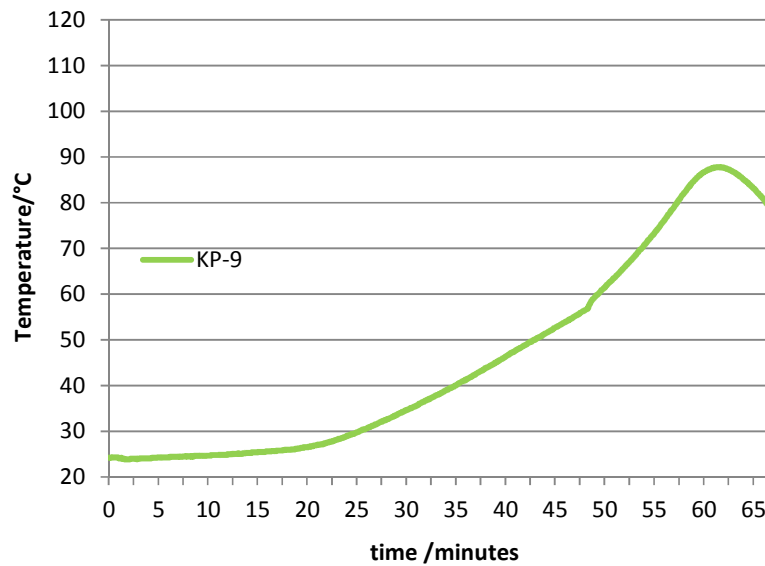
### CURE CHARACTERISTICS

A reactivity test with an unsaturated polyester resin gave the following results:

Resin: Orthophthalic polyester      Temperature: 25°C  
Initiator %: 1.5      Accelerator: 0,5 % (1% Cobalt)

Initiator	Gel time Min	Time to peak min	Peak exotherm temp °C
<i>Catalyst M</i>	25	61	88

### Reactivity of Catalyst M:



### Standard Packaging

The standard package sizes of Catalyst M are 5 kg and 25 kg polyethylene bottles.

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## **Disclaimer**

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